



## Veterinary Science Technology Program Handbook

Academic Year 2016 - 2017

Welcome to the Veterinary Science Technology program at the State University of New York at Delhi. This handbook has been developed to familiarize you with materials pertinent to the program and the profession. Please read this handbook carefully and address any questions to your advisor or the department chair. In addition, please familiarize yourself with the SUNY Delhi Student Handbook and college catalog.



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## **Veterinary Science Technology at SUNY Delhi**

Delhi's Veterinary Science Technology program, established in 1961, was the first of its type in the United States. Since its inception, it has developed into a dynamic, nationally recognized program. The program is fully accredited by the American Veterinary Medical Association (AVMA).

The program is designed to meet existing demands for technical personnel in the veterinary and biomedical fields. Extensive laboratory facilities, versatile faculty and staff, and hands-on experiences with companion, laboratory, farm, and other animals are major assets of the program. A required externship (work experience in a veterinary practice, animal research facility, or approved animal facility) also enhances each student's skills and employment potential.

### **Mission Statement**

We, the dedicated professional educators of the flagship veterinary technology program, strive to educate our students to be the best veterinary technicians in the nation, providing high-quality, compassionate veterinary nursing care.

We encourage the continuous growth of our students, and we seek to enhance their appreciation of the human-animal bond through their education and community service.

In generating this premier educational environment, we provide our students opportunities to explore the broad diversity of the profession and we instill in them a passion for lifelong learning.

### **Vision Statement**

We the proud members of the Veterinary Technology Program are dedicated to working collaboratively, utilizing our diverse talents and strengths to foster the premier learning environment for our students, graduates and the veterinary technician professional community.

## **Veterinary Science Technology - A.A.S.**

### **The Profession**

The Veterinary Science Technology program provides students with a broad theoretical background and excellent technical skills essential for careers as veterinary technicians and/or laboratory animal technicians.

Students will receive an A.A.S. degree upon successful completion of the curriculum and will be eligible to sit for the Veterinary Technician National Examination. The program is designed to be completed in two years, but the curriculum may be modified based on the academic preparedness or desires of the applicant.

### **Veterinary Technician**

Licensed veterinary technicians (LVT) are employed by veterinarians in small, large, mixed animal practices and related facilities (eg. Humane societies). The LVT's role is comparable to that of the registered nurse and other medical technicians in human medicine. Their professional duties may include, but are not limited to, surgical and medical nursing, laboratory testing, and radiographic procedures under the supervision of licensed veterinarians and LVT's. Graduates may also practice in veterinary and technical colleges, zoos, public health services, government, military service, private industry and other animal science-related fields. The program also provides opportunities to participate in continuing education for Veterinary Technicians.

### **Laboratory Animal Technician**

Additional career opportunities are available to LVT's when employed by the pharmaceutical industry; medical, dental, and veterinary colleges; and diagnostic and testing laboratories. Under the direction of veterinarians or research scientists, these LVT's may have responsibility for animal health and husbandry, investigative procedures, pharmaceutical testing, administrative, and related duties. With additional professional experience, graduates who complete advanced laboratory animal courses are eligible to take the American Association for Laboratory Animal Science Certification examination. The program provides opportunities for continuing education for laboratory animal technicians.

### **Terminology**

*Veterinarian:* A person with the degree Doctor of Veterinary Medicine (DVM or VMD). In the USA all veterinary colleges take four years of full time study to complete the DVM or VMD degree. This follows four years of a pre-veterinary program in which the student may be awarded a Bachelors degree.

*Veterinary Technician:* A person who has graduated from a two or four year AVMA accredited college program in veterinary technology. In New York, only persons

licensed by the state may call themselves veterinary technicians (LVT). The curriculum for veterinary technology is very applied and designed to educate technicians. It is NOT a pre-vet program.

*Veterinary Assistant/ Animal Care Assistant:* or other terms are used to describe other members of the health care team with less formal or applied education than a technician.

## **Veterinary Science Technology Program Objectives**

A graduate of the Veterinary Science Technology A.A.S. program should be able to:

1. Successfully complete the Veterinary Technician National Exam.
2. Demonstrate skills and knowledge of domestic animals including normal values for temperature, pulse, and respiration; conduct a thorough and accurate physical examination including the proper use of the stethoscope; restrain animals for physical examination and veterinary techniques.
3. Perform animal nursing and critical care for all common domestic animals including: restraint, administering medications, diagnostic sampling for laboratory evaluation, maintaining fluid therapy, applying and removing bandages and splints, and applying established emergency protocols.
4. Assist with animal surgery including knowledge of routine procedures and operating room equipment; prepare the patient, veterinary personnel, and equipment for sterile surgical procedures; function effectively as a surgical assistant to the veterinary surgeon during surgical procedures.
5. Induce, stabilize, monitor, and maintain anesthesia under supervision of the veterinarian; recognize and report anesthetic emergencies; apply resuscitation techniques and CPR.
6. Assist with diagnostic imaging including radiography and ultrasound; expose, develop, and evaluate radiographs to provide diagnostic images for veterinary interpretation and diagnosis; and properly clean and maintain diagnostic imaging equipment.
7. Perform common laboratory procedures: hematologic examinations, blood chemistries, urinalysis, parasitic examinations, cytological procedures, microbiological procedures, and necropsy.
8. Provide competent assistance with office procedures: telephone contacts, making appointments, admitting and discharging patients, maintaining medical and financial records, and establishing and maintaining a clean and orderly veterinary facility.
9. Communicate with the public, clients, and colleagues through both verbal and written communication skills, including effective listening.
10. Design and deliver grief-management assistance to clients and colleagues.
11. Demonstrate knowledge of the common medicines used in veterinary medicine including: types and groups of drugs; labeling and packaging of dispensed drugs; using weights and measures correctly; calculating dosages; safely storing,

handling, and disposing of controlled substances, biologics, therapeutic agents, and hazardous wastes.

12. Differentiate between normal and abnormal patient responses to medication.
13. Understand basic knowledge of animal health and common diseases and disease processes for all common domestic animals.
14. Demonstrate skills and knowledge associated with the use of common laboratory animals including basic principles of animal research and local, state, and federal animal welfare regulations.
15. Demonstrate skills and knowledge associated with cleaning, sanitizing, and sterilizing equipment and facilities, including knowledge of products, equipment, procedures, and techniques routinely used in reducing, eliminating, or preventing contamination of the animal-care institutions.

## **Admission Standards**

Enrollment in the Veterinary Technology Program requires:

>80% high school average which includes:

- >78% H.S. biology (class average and regents)
- >78% in at least 1 year of H.S. math (Math A/Course 1)
- >78% on English Regents Test

the mean of the course average and the regents grade may be used if these scores vary greatly.

High School Chemistry and Clinical Veterinary experience/ volunteering are strongly recommended.

If a candidate is deficient in any one of the above course requirements;

- He/she may be accepted after showing proof of progress towards satisfying the deficiency by submitting a mid-year, or final high school transcript.
- Or by retaking the appropriate regents exam with a grade > 78%.
- Or be accepted into Liberal Arts and then the Veterinary Science Technology transfer policy will be followed.
- Or enroll in an appropriate college level course or college remedial (<100 level, H.S. level) course (Math, Chemistry, or Biology) and receive a grade of C or higher.

If a candidate does not satisfy the admissions deficiency before enrolling at Delhi, they will be admitted as a Liberal Arts major in an effort to meet VST admissions requirements by registering for the appropriate courses as recommended by a VST department member, and completing a minimum of 12 college credit hours, through the students advisor or the Liberal Arts Division Office.

A student will be accepted as an internal transfer into the VST program following satisfactory completion of the required admission/prerequisite courses and having a cumulative GPA of at least 2.50 (see VST – Internal Application Form).

Because of the volume of scientific literature which is required in most veterinary science courses, the student should have above-average reading and writing skills.

All applicants are strongly encouraged to participate in volunteer or work situations in veterinary clinics, laboratory animal or similar animal-oriented facilities (i.e. humane societies, zoos, farms etc.)

A maximum of one-half of the total Veterinary Science Technology credit hours may be transferred to Delhi College from other AVMA-accredited Veterinary Technology programs, whether on-site or distance learning. All degree students must earn thirty (32) or more credit hours of coursework under the direct supervision of the faculty of Delhi College.

Courses to be transferred in from another college are evaluated on an individual basis for content and compatibility with Delhi College courses. The prospective student will be required to provide supportive material to demonstrate equivalency to Delhi courses to the satisfaction of the Delhi faculty. The College reserves the right to test transfer applicants to demonstrate compatibility of courses and knowledge.

Some required Veterinary Science Technology courses may be challenged by an enrolled student if that student has adequate qualifications to do so. Individual courses may have requirements which prohibit challenge.

### **Veterinary Science Technology Transfer Policy**

Students requesting admission to the Veterinary Technology program will be considered for acceptance as a "Transfer Student" if they have successfully completed at least 12 college credits which may be accepted and satisfy course requirements for completion of the A.A.S. degree in Veterinary Technology. In order to be accepted into the Veterinary Technology program as a transfer student (from another division/major at SUNY-Delhi or from another academic institution), the following criteria must be met:

- A student must have a cumulative GPA **>2.5** with a minimum of 12 college credits.
- Transfer courses which satisfy program Liberal Arts and Science requirements must have a grade of C or better.
- Transfer courses which satisfy program Veterinary Technology course requirements must have been taken at an AVMA accredited Veterinary Technology program, have a grade of C+ or better, and be approved by the instructor of the equivalent course, the department chair, or both.
- A student's high school record may need to be reviewed if a candidate did not complete college level biology, chemistry, or math courses which are applicable to the program requirements.



If the above transfer admission requirements have not been met, then a candidate will be evaluated for admission based on their high school record and the admission requirements as stated in the college catalog.

### **Course Advancement Policy for Veterinary Technology Students**

For all VETS classes, including BIOL218 Animal Anatomy and Physiology, grades will be given according to the following schedule:

Letter Grade	Numerical Grade
A	92 or greater
A-	90 – 91.9
B+	87 – 89.9
B	82 – 86.9
B-	80 – 81.9
C+	75 – 79.9
C	72 – 74.9
C-	70 – 71.9
D+	67 – 69.9
D	62 – 66.9
D-	60 – 61.9
F	less than 60

### **Requirements for Current SUNY-Delhi VST Students to Remain in the Program:**

A successful grade for students in the Veterinary Science Technology Program is defined below:

- For all required Liberal Arts courses and all 100 level VETS courses a grade of “C” or higher is required.
- For all 200 level VETS courses a grade of “C+” or higher.
- For all required non VETS courses (ie BIOL 218, BIOL230) a grade of “C” or higher is required.

Individual courses (for example VETS 115 Medical Math) may have standards which exceed this minimum passing grade requirement listed above – any variation from the definition above would be outlined in the course syllabus.

Successful completion of ALL prerequisite courses is required to enroll in subsequent program courses, as stated in program course descriptions, to allow a student to advance in the program.

A student who receives an un-successful grade in 3 cumulative required courses (in one or multiple courses) will not progress in the Vet Sci Program. The student will be advised into a different academic major and will need to petition for readmission to progress in the Vet Sci program. In order to successfully petition, the student must either be a full time student for a minimum of one semester with a GPA >2.5 OR must work/volunteer in a clinical veterinary setting for a minimum of 160 hours and provide a reference letter from that facility.

If readmitted to the Veterinary Technology Program, any additional unsuccessful grade would result in permanent removal from the program.

Failure to advance in the natural progression of classes may affect a student's financial aid or on-campus housing eligibility. Please consult with your academic advisor, student financial services, and residence life to determine any impact.

Failure to advance in the natural progression of classes may affect a student's financial aid or on-campus housing eligibility and may impact a student's status as a Veterinary Science major. Please consult with your academic advisor, student financial services, and residence life to determine any impact.

### **Academic Probation Restrictions for Veterinary Technology Students:**

Veterinary Technology students whose cumulative GPA is less than 2.00 will be placed on Academic Probation and must abide by the restrictions outlined in the colleges academic policies:

Students with a cumulative GPA between 1.50 – 2.00 will be limited to a semester credit hour load not to exceed 15 credit hours.

Students with a cumulative GPA < 1.5 will be limited to a semester credit hour load not to exceed 12 credit hours.

Students will also be required to meet the colleges required attendance policy for students on probation (90%), meet with their advisor, and participate in activities as outlined in the students probation contract.

Being on academic probation may affect a student's financial aid or on-campus housing eligibility. Please consult with your academic advisor, student financial services, and residence life to determine any impact.

### **Task List**

The American Veterinary Medical Association's Committee on Veterinary Technician Education and Activities (CVTEA) has established a list of essential skills that are required to be completed by veterinary technology students prior to graduation. The skills will be distributed amongst the veterinary technology program required courses and must be successfully completed before a passing grade is awarded in that particular course. Students are to be prepared to perform these tasks upon instructor request.

### **Student Standards**

*Accountability:* Each Delhi veterinary science technology student is expected to act professionally and be accountable for his/her own actions. You are expected to attend class. If you miss a class meeting for any reason (excused or unexcused) you will be held responsible for all material covered and announcements made in class.

*Professional Behavior:* Students are expected to exhibit professional conduct in all academic endeavors, interactions and experiences. Veterinary Technology is a licensed profession requiring a high standard of behavior. Professionals are invested with trust by the community, therefore, we are bound by legal, ethical and moral obligations in addition to those common to every other member of society. Veterinary Technicians not only represent the facility in which they work, they are also entrusted with the care of client pets/animals. They also have access to drugs, needles, syringes and supplies illegal to non-licensed personnel. Student affiliation/membership with

unrecognized or banned social organizations may be cause for removal from the Veterinary Technology Program.

Therefore:

1. Knowledge of and adherence to a professional standard of behavior is an integral part of the Veterinary Technology curriculum.
2. The program requires that all students act professionally at all times. Condoning unprofessional behaviors by others is also a violation of ethical conduct. Students will be expected to speak and act professionally at all times as if they were in a professional workplace.
3. College policies on academic integrity are strictly enforced and violations of professional standards may result in penalties ranging from failing grade to expulsion from the program. Violations include, but are not limited to cheating, plagiarism, theft, or aggressive words or actions.
4. Destruction of equipment, misuse of supplies and poor or inhumane treatment of animals may result in dismissal from the program. Students may not initiate any treatment or procedure to any animal without authorization of a veterinarian.

#### *Dress*

The second floor of Farnsworth Hall is dedicated solely to the Veterinary Technology program. To maintain a safe and clean environment for people as well as our animals, the following regulations apply to all students and personnel when they on the second floor of Farnsworth Hall:

- Wear shoes that completely cover the feet. Non-skid shoes are recommended. Open toe shoes or sandals are prohibited.
- Wear either a lab coat over their clothes or surgical scrubs. Pants must completely cover the legs. Skirts and dresses are discouraged unless required for religious reasons.
- All hair that is shoulder length or longer should be confined behind the head during any lab or when handling animals.
- All nails should be no longer than the tips of your fingers to avoid injury to animals. No artificial nails should be worn due to health issues with pathogens.
- Stud earrings may be worn; no loop or long dangling earrings or necklaces may be worn at any time.
- No facial jewelry (i.e. eyebrow, nose, lip, etc.) will be worn to avoid injury from animals.
- Each student must maintain a professional appearance at all times including clean hair and clothing and exemplary personal hygiene.

Attire at the Large Animal Teaching facility is important to prevent disease transmission as well as personnel safety. While at the Large Animal Teaching facility the following attire is required:

- Rubber washable boots must be worn. Workboots with rubber overboots preferred.
- Coveralls that completely cover street clothing.

*Student Animals:* No privately owned animals are allowed in any building on campus unless prior permission has been granted by veterinary technology staff or appropriate personnel. There are no exceptions.

## **Health Concerns**

*Accident/ Injury:* Students who are injured during class or laboratory activities must notify their instructor immediately and an Accident Report must be completed. Depending on the nature of the injury the student will be referred to the college health center, the hospital emergency department or the student's health care provider. Students should take universal precautions to avoid exposure to any blood or body fluid.

*Pregnancy:* Students who are pregnant or think they might be pregnant must consult with their personal physician to determine if they should defer the program or if modifications in laboratory involvement may be necessary. In addition the student must notify the department chair immediately.

*Pre-exposure rabies vaccination:* Pre-exposure rabies series is strongly recommended for veterinary technology students.

## **Technical Standards for Admission, Progression and Graduation**

The list of technical standards is for you to use to become aware and informed of the skills required in the performance of duties of a veterinary technician and to assess your ability to complete such duties. These technical standards reflect performance abilities and characteristics that are necessary to successfully complete the requirements of the Veterinary Science Technology program at SUNY Delhi. These standards are not conditions of admission to the program. Persons interested in applying for admission to the program should review this form to develop a better understanding of the skills, abilities and behavioral expectations necessary to successfully complete the program. The College complies with the requirements and spirit of Section 504 of the Rehabilitation Act and the Americans with Disabilities Act of 1990. Therefore, the College will endeavor to make reasonable accommodations for participants with disabilities who are otherwise qualified.

### **OFFICE AND HOSPITAL PROCEDURES, CLIENT RELATIONS**

The student must:

- Communicate with clients and other veterinary professionals to disseminate information relevant to patient care including obtain an accurate patient history.
- Participate in facility management utilizing traditional and electronic media to manage inventory, schedule appointments, admit and discharge patients
- File medical records, radiographs and lab reports.
- Demonstrate telephone etiquette.
- Apply crisis intervention/grief management skills with clients.
- Understand and observe legal boundaries of the veterinary health care team members.
- Interact professionally with clients and fellow staff members.
- Demonstrate a commitment to high quality patient care.
- Respect and protect the confidentiality of client and patient information.
- Demonstrate the ability to accurately record medical information.

### **PHARMACY AND PHARMACOLOGY**

The student must:

- Interpret and follow veterinarian's pharmacy orders and accurately perform appropriate calculations to prepare medications including correctly labeling and dispensing drugs.
- Monitor therapeutic responses to drugs and differentiate between abnormal and normal responses to medication.

## NURSING CARE

The student must:

- Safely work with domestic farm animals, dogs, cats and laboratory animals.
- Demonstrate safe, effective and appropriate restraint techniques while veterinary procedures are performed on an animal.
- Demonstrate safe and effective use of restraint devices such as:
  - Muzzle
  - Elizabethan collar
  - Restraint pole
  - Halter
  - Twitch
  - Chutes
- Transfer patients in and out of cages, kennels and stalls.
- Safely administer medication to animal patients via:
  - Parenteral (subcutaneous, intramuscular, intravenous)
  - Enteral (balling gun, dose syringe, gastric intubation, hand pilling)
  - Topical routes (including eye meds)
- Perform fluid therapy
  - Placement and care of intravenous catheters
  - Determine and maintain fluid infusion rate
  - Monitor patient hydration status
- Perform patient assessment techniques that will allow for accurate evaluation of the patient's physical status with minimal stress and anxiety.
  - Obtain temperature, pulse respiration
  - Assess hydration status
- Safely apply and remove bandages.
- Recognize and respond appropriately to veterinary medical emergencies and apply established emergency protocols. Perform:
  - First aid
  - Cardiopulmonary resuscitation
- Recognize common domestic animal species and breeds.
- Demonstrate therapeutic bathing, basic grooming and dipping of small animals.
- Implement appropriate husbandry techniques to enhance wellness and reduce risk of injury and stress.
- Perform appropriate sanitation and nosocomial protocols for a veterinary facility.
- Manipulate and operate equipment necessary for veterinary medical care.
- Interpret expressions and signs of pain in the veterinary patient.
- Identify and interpret changes in patient mucous membrane to evaluate for cyanosis, icterus, shock.
- Collect diagnostic specimens such as blood, urine and feces.
- Monitor and assess health status.
  - Auscultation of heart and lungs

- Respond to equipment alarms and warning sounds from animals, humans and/or equipment of impending danger.

## ANESTHESIA AND SURGICAL NURSING

The student must:

- Communicate in a surgery room while all occupants wear surgical masks.
- Safely manipulate and move patients to a surgical table.
- Accurately calculate and properly administer anesthetic drug dosages via injection, endotracheal tube or mask.
- Safely perform endotracheal intubation.
- Maintain and operate anesthetic delivery and monitoring equipment including;
  - Pulse oximeter
  - Capnograph
  - Esophageal stethoscope
  - Electrocardiograph
  - Resuscitation bag
  - Scavenging systems
  - Oxygen sources
  - Respiratory monitors
  - Blood pressure monitoring
  - Laryngoscopes
  - Thermometer

## LABORATORY PROCEDURES

The student must:

- Use a compound microscope to identify cells and organisms.
- Accurately pipette specimens.
- Accurately record the results of manual tests such as:
  - Packed cell volume
  - Total protein
  - Specific gravity
  - ELISA tests.
- Accurately record the physical properties of diagnostic specimens.
- Prepare fecal specimens using floatation techniques.
- Perform microbiological procedures to accurately identify microbes.
  - Use of Bunsen burner
  - Loop
  - Staining techniques
  - Culture media
- Perform fine needle tissue aspirates and impression smear preparation.
- Perform necropsy.



## IMAGING

The student must:

- Manipulate and operate radiographic equipment
- Critique radiographs to determine if radiographic contrast and density are correct.
- Properly measure anatomic area to be radiograph.
- Accurately interpret technique charts and properly set the parameters in the console of the radiographic machine.
- Properly record parameters in radiation log book.
- Properly label film with patient information.
- Manipulate patient for correct positioning to produce a diagnostic radiograph.
- Perform proper maintenance of radiographic equipment.

## **Essential Job Requirements of the Veterinary Technician**

Individuals pursuing a career in veterinary technology must take into considerations the job requirements that person must fulfill. If a person is not able to perform these essential job requirements they are encouraged to seek another career better suited for their abilities.

### **Summary of Essential Job Requirements of the Veterinary Technician (Including but not limited to the following)**

1. Personality suited to exhibit respect, concern, and compassion for both animals and humans
2. Possess the capacity to make independent decisions, work unsupervised, be creative, adaptable, and resourceful. Believe in the highest standards of care and uphold the values of personal responsibility, honesty, integrity, ethical behavior, trust and professionalism.
3. Ability to tolerate walking and standing for sustained and prolonged periods of time (85% of workday).
4. Capable of lifting from floor to waist level and/or carrying up to forty pounds unassisted frequently, and up to fifty pounds or more with assistance occasionally.
5. Ability to bend over at the waist, twist the trunk, squat, kneel, reach above the head, and have sufficient grip strength. Have the body size, conformation, and fitness to do the physical work required of a technician.
6. Amenable to learning to safely handle, restrain, and work with any species of domestic and exotic animals that may be sick, injured, fractious, or aggressive without fear.
7. Willingness to assist with or perform a wide variety of routine medical, surgical, and diagnostic procedures common to the veterinary setting including humane euthanasia.
8. Open to performing routine cleaning and janitorial duties including using brooms, brushes, hoses and various cleaning products (detergents, disinfectants).
9. Understanding of the requirement to work with and around dangerous animals, hazardous chemicals, compressed gasses, pharmaceuticals, sharp objects, radiation, and biohazards.
10. Aptitude for science requiring attention to detail, careful observation and accurate record keeping.

11. Capacity to perform arithmetic and simple mathematical calculations. Capable of learning to operate and maintain a variety of medical diagnostic and therapeutic equipment.

12. Communicate effectively and efficiently with others in order to elicit information. Communication includes not only speech but also reading and writing.

13. Capacities to read and hear, understand, and quickly execute complex verbal and written instructions given in English.

14. Possess eyesight capable of viewing small visual images, use a microscope and read instrumentation.

### **Summary of Environmental Working Conditions**

Individuals pursuing a career in veterinary technology should also consider the environmental working conditions of the typical veterinary technician.

According to the Classification of Jobs Index, Directory of Occupational Titles, US Department of Labor, the environmental working conditions for the veterinary technician are as follows:

1. Works both indoors and outdoors in all weather conditions during both daylight and after dark, long hours, shift work, stressful and sometimes emotionally charged, fast-paced profession.

2. Capacity is that of a licensed veterinary medical professional. Daily interactions with doctors, other technicians, support staff, clients (people) and patients (animals).

3. Will assume many different roles during a workday (receptionist, technical assistant, nurse, kennel attendant, janitor, counselor, etc.) Interacts with an endless variety of people, animals and challenging clinical and interpersonal situations.

4. Frequent exposure to loud noises, odors, animal pain and suffering, invasive (bloody) medical, surgical and diagnostic procedures, dangerous animals, sharp objects, hazardous chemicals, compressed gasses, pharmaceuticals (including controlled substances), radiation and biohazards during the routine practice of veterinary medicine.

5. Constant exposure to animal hair, dander and many other potential allergens.

## **Veterinary Science Technology Curriculum Scenario**

This is a sample curriculum scenario. Different scenarios may need to be developed based on individual student needs.

### **First Year**

#### **First Semester**

<b>Course No.</b>	<b>Course</b>	<b>Cr. Hrs.</b>
BIOL 230	General Microbiology	4
MATH 128	College Algebra	3
VETS 115	Medical Math for Veterinary Technicians	1
VETS 120	Introduction to Veterinary Science	2
VETS 131	Small Animal Nursing and Care	3
BIOL 218	Animal Anatomy and Physiology	4
	<b>Total</b>	<b>17</b>

#### **Second Semester**

<b>Course No.</b>	<b>Course</b>	<b>Cr. Hrs.</b>
ENGL 100	Freshman Composition	3
CHEM 120/180	Introductory Chemistry I or Gen Chem	4
VETS 132	Large Animal Care	2
VETS 160	Introductory Research Animal Technology	3
VETS 171	Parasitology	3
VETS 180	Clinical Physiology	2
VETS 198	Preceptorship (Internship) Preparation	1
	<b>Total</b>	<b>18</b>

#### **Summer Semester**

<b>Course No.</b>	<b>Course</b>	<b>Cr. Hrs.</b>
VETS 183	Preceptorship I	1

VETS 203	Preceptorship II	1
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## Second Year

### Third Semester

Course No.	Course	Cr. Hrs.
BUSI 120	Business Communications	3
VETS 204	Animal Care II	1
VETS 238	Surgical Nursing and Anesthesia Lecture	3
VETS 239	Surgical Nursing and Anesthesia Lab	1
VETS 245	Diagnostic Imaging	2
-----	Restricted Elective	1
VETS 189 or 270	Nutrition	2 or 3
	<b>Total</b>	<b>13 or 15</b>

### Fourth Semester

Course No.	Course	Cr. Hrs.
VETS 205	Clinical Laboratory Techniques (Lecture)	3
VETS 210	Clinical Laboratory Techniques (Laboratory)	1
VETS 230	Farm Animal Nursing	2
VETS 235	Farm Animal Nursing Laboratory	1
VETS 250	Veterinary Clinical Management	3
VETS 255	Veterinary Medical Nursing	3
VETS 242	Dentistry	1
	<b>Total</b>	<b>14</b>

**TOTAL MINIMUM CREDIT**

**64**

## Prerequisites

### Required Courses

#### VETS

<u>Course #</u>	<u>Course Title</u>	<u>Course Prerequisites</u>
115	Medical Math for Veterinary Technicians	Enrollment in the Veterinary Science Technology Program
120	Introduction to Veterinary Science	None
131	Small Animal Care	Enrollment in the Veterinary Science Technology Program
132	Large Animal Care	Enrollment in the Veterinary Science Technology Program
BIOL 218	Animal Anatomy and Physiology	BIOL 130 OR Enrollment in the Veterinary Science Technology Program HS Biology and Chemistry (78 Regents) OR concurrent CHEM 120/180
160	Introduction to Research Animal Techniques	VETS 115 Med Math or concurrent for Transfers VETS 120 Intro to Vet Sci VETS 131 Small Animal Care or concurrent enrollment VETS 132 Large Animal Care or concurrent enrollment BIOL 218 Animal Anatomy and Physiology
171	Veterinary Pathology and Parasitology	VETS 115 Medical Math VETS 120 Intro to Vet Sci BIOL 218 Animal Anatomy and Physiology
180	Clinical Physiology	VETS 120 Intro to Vet Sci VETS 131 Small Animal Care or concurrent enrollment VETS 132 Large Animal Care or concurrent enrollment BIOL 218 Animal Anatomy and Physiology
198	Prep Vet Tech Preceptorship	VETS 120 Intro to Vet Sci or concurrent VETS 115 Medical Math VETS 131 OR concurrent VETS 132 OR concurrent VETS 160 Research Animal Techniques or concurrent VETS 171 Veterinary Path/Parasit or concurrent

		VETS 180 Clinical Physiology or concurrent
183/203	Vet Tech Preceptorship I and II	VETS 115 Med Math VETS 131 Small Animal Care VETS 132 Large Animal Care VETS 160 Research Animal Techniques VETS 171 Veterinary Parasitology VETS 180 Clinical Physiology VETS 198 Prep Vet Tech Preceptorship
204	Animal Care II	VETS 183 Preceptorship I
205 & 210	Clinical Laboratory Techniques (Lec and Lab)	VETS 115 Med Math VETS 131 Small Animal Care VETS 132 Large Animal Care VETS 160 Research Animal Techniques VETS 171 Veterinary Parasitology VETS 180 Clinical Physiology CHEM 120 or 180 Intro or Gen Chem BIOL 230 Microbiology VETS 183 Preceptorship I VETS 205 and 210 are co-requisites
230 & 235	Farm Animal Nursing (Lec and Lab)	VETS 115 Med Math VETS 131 Small Animal Care VETS 132 Large Animal Care VETS 171 Veterinary Parasitology BIOL 230 Microbiology
238 & 239	Surgical Nursing and Anesthesia (Lec and Lab)	VETS 115 Med Math VETS 131 Small Animal Care VETS 132 Large Animal Care VETS 160 Research Animal Techniques VETS 171 Veterinary Parasitology VETS 180 Clinical Physiology BIOL 230 Microbiology CHEM 120 OR CHEM 180 VETS 183 Preceptorship I
242	Companion Animal Dentistry	VETS 183 Preceptorship I Pre or Co-requisite VETS 238/239

250	Veterinary Clinical Management	VETS 115 Med Math VETS 120 Intro to Vet Sci VETS 131 Small Animal Care VETS 132 Large Animal Care BIOL 218 Animal Anatomy and Physiology
255	Veterinary Medical Nursing	VETS 115 Med Math VETS 131 Small Animal Care VETS 132 Large Animal Care VETS 160 Research Animal Techniques VETS 171 Veterinary Parasitology VETS 180 Clinical Physiology CHEM 120 or 180 Intro or Gen Chem BIOL 230 Microbiology
270	Applied Clinical Nutrition	VETS 140 Animal Anatomy and Physiology

### **Elective Courses**

196	Equine Care and Management	VETS 132 Large Animal Care
202	Dairy Herd Health Management	VETS 132 Large Animal Care
211	Preventative Medicine and Shelter Medicine	VETS 210 Clin Tech Lab with C+ or higher or concurrent enrollment
220	Applied Research Animal Techniques	VETS 160 Research Animal Techniques with C+ or better VETS 180 Clinical Physiology VETS 205 Clin Tech Lecture or concurrent enrollment VETS 210 Clin Tech Lab or concurrent enrollment
221	Breeding Colony Management	VETS 160 Research Animal Techniques with C+ or better AND permission of Instructor
241	Advanced Surgical Nursing	VETS 239 Surgical Nursing and Anesthesia Lab AND permission of instructor



247	Exotic Medicine and Nursing	VETS 131 Small Animal Care VETS 132 Large Animal Care VETS 160 Research Animal Techniques or concurrent
281	Primateology II	VETS 282 Applied Primateology Lecture VETS 283 Applied Primateology Lab AND permission of Instructor
282	Applied Primateology Lecture	None
283	Applied Primateology Lab	VETS 131 Small Animal Care VETS 160 Intro RATS

## Transfer to Four Year Degree Program

Often students wish to transfer to a four year bachelor program or pre-veterinary program. SUNY Delhi has articulation agreements with SUNY Cobleskill, SUNY Morrisville, and SUNY Canton and the following guidelines have been established for successful transfer to Cornell. Those students interested in transferring to other four year colleges must consult with that institution to determine what courses may be necessary for transfer.

### Animal Science

#### Required

Biology 1 and 2

Chemistry 1 and 2

Statistics

English composition 6 credits

**Or** English composition and Public Speaking

### Pre-Veterinary

Biology 1 and 2

Chemistry 1 and 2

Organic Chemistry 1 and 2 with one semester of lab

**Or** Physics 1 and 2 with lab

Calculus

English composition 6 credits

**Or** English composition and Public Speaking

\*These biology courses must be with laboratories.

\*\*Other majors have different requirements – See “College of Agriculture and Life Sciences: Required Preparatory Course Work” for other requirements.

### Articulation Agreement with Cornell

GPA  $\geq$  3.0 and satisfactory completion of required courses



**SUNY Delhi Veterinary Science Technology Program**  
**Safety and Health Concerns Within the Veterinary Science Technology Program**

Working with animals always carries a risk of potential injury and exposure to zoonotic diseases. Due to the inherent hazards of working with animals and the procedures performed by veterinary technicians, students are expected to conduct themselves in a manner consistent with good safety practices. Working with animals of several species is a program requirement, and working in laboratories may pose certain medical, physical and chemical risks. Students will be performing laboratory procedures involving chemicals and specimens, and they should use caution and good laboratory practices when handling these items.

Students are reminded that pre-exposure rabies vaccination is **strongly recommended** in the Veterinary Technology Program and, should a student be injured by any animal during the course of her/his study, the student must immediately report the incident to her/his primary course instructor and may be directed to Student Health Services for treatment. If the student has not had a pre-exposure rabies vaccination and if the animal is a rabies suspect, further treatment including, but not necessarily limited to, post-exposure rabies vaccination may be required.

If any student is pregnant or plans to become pregnant during the course of the program, she is advised to consult with the primary course instructor(s) due to the use of anesthetic gases, exposure to zoonotic diseases, noxious chemicals and potential radiation exposure that may be experienced in laboratory courses.

Any student with further concerns should discuss possible risks with her/his personal physician, as well as with her/his advisor and the department chair, and identify limitations that may be needed.

***I have completely read, fully understand, and voluntarily accept the risks involved in working with animals in the Veterinary Technology Program. I understand that individual course instructors may have additional safety and health concerns explained in their course syllabi, which must also be read and followed along with this policy. I understand that animals are unpredictable and unforeseen circumstances could occur which may result in personal injury, and I agree to assume these risks. I further agree to hold harmless the State University of New York College at Delhi, its officers, directors, agents, employees, instructors, and associates from any and all manner of actions or claims arising out of my participation in this Program and do hereby waive any claim to compensation based upon exposure to the situations discussed in the course of this document.***

_____ Student Signature	_____ Print Name	_____ D.O.B.	_____ Date
_____ Faculty/Staff Signature	_____ Print Name		_____ Date

\_\_\_\_\_  
Parent or guardian signature if student under eighteen years of age



## **Student Understanding Veterinary Science Technology Program**

As a student enrolled in the Veterinary Technology program at SUNY Delhi, and as of the date entered below,

I \_\_\_\_\_ understand the following:  
(Print Your Name Here)

- Course Advancement Policy for Veterinary Technology Students
- Academic Probation Restrictions for Veterinary Technology Students
- Task List
- Student Standards
- Health Concerns
- Technical Standards for Admission, Progression and Graduation
- Prerequisites
- I will read and refer to the Veterinary Technology Program handbook as needed.

Signature: \_\_\_\_\_

Date: \_\_\_\_\_